

AI-powered overview" is a mathematical contradiction: It's not a summary, it's an amnesiac chatbot

[gemini](#)

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1 July 2, 2026, 5:25pm

Google's "AI-powered overview" (AI Overview) marketing is a technical deception.

It is not an overview.

It is not a snapshot.

It is simply a plain, stateless LLM.

To prove this, I attached screenshots taken seconds apart, using **the exact same input**.

The system generates **completely different answers every single time**.

Technical reality

Because of token limits and sampling mechanics, the system allows **only one run**, then **restarts**.

On every run, it:

- generates a new token stream
- uses new sampling
- runs on a new model instance

Therefore it produces **random, stochastic outputs** for the exact same input.

It is simply **an amnesiac Gemini chatbot** disguised as a search feature.

The mathematical contradiction

Google calls this an “Overview” or “Snapshot”.

These concepts have **strict logical definitions** that are **mathematically incompatible** with how generative AI works.

What is a real overview / snapshot?

- stable
- reproducible
- deterministic
- unchanged under identical conditions

What is Google’s AI Overview instead?

- constantly changes its output
- unstable
- not reproducible
- stochastic (random)
- a stateless generative process

Summary

You cannot call a stochastic text-generation process a “snapshot” or “summary”.

A summary means **deterministic extraction of facts**.

AI Overview is **by design** incapable of this.

Selling an unstable, amnesiac chatbot as the web’s official “Overview” is:

- false advertising

- deceptive UI
- and a fundamental lie to users

A search engine must be **deterministic** (the same query must return the same fact).

If it isn't, then it is **not a search engine** and **not a summary**, but a **random number generator**.

This is incompatible with its claimed role as a **web summarizer**.

The Screenshot Evidence

The fact that the system gives **different answers seconds apart** to the same prompt is the clearest physical proof of “hallucination”.

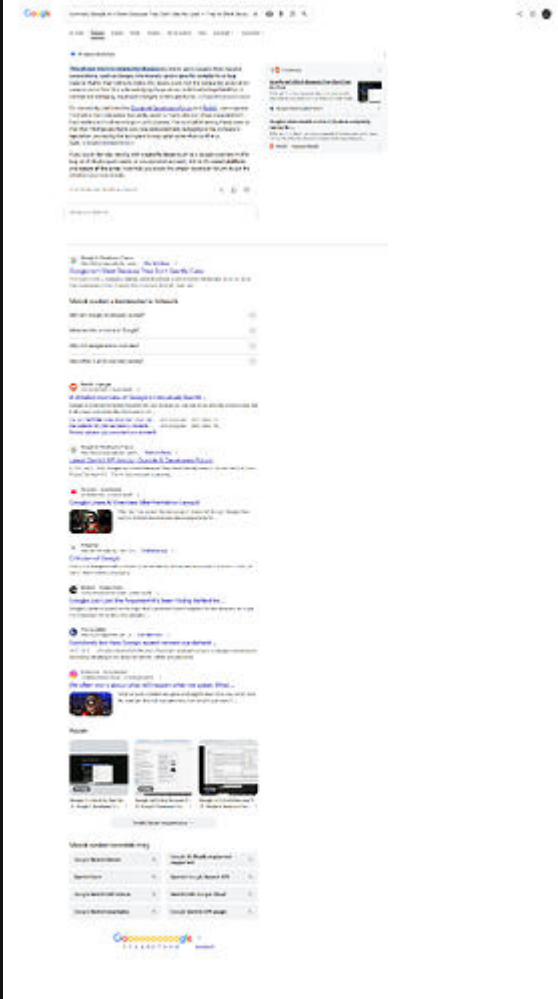
They cannot claim “the web changed”, because the web does **not update in seconds**.

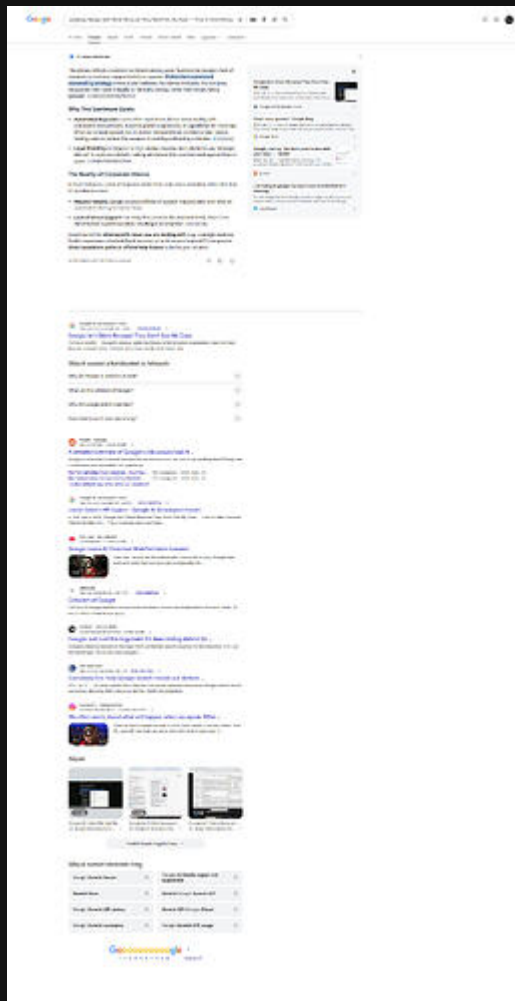
A token-limited LLM is technically incapable of producing **consistent web summaries**.

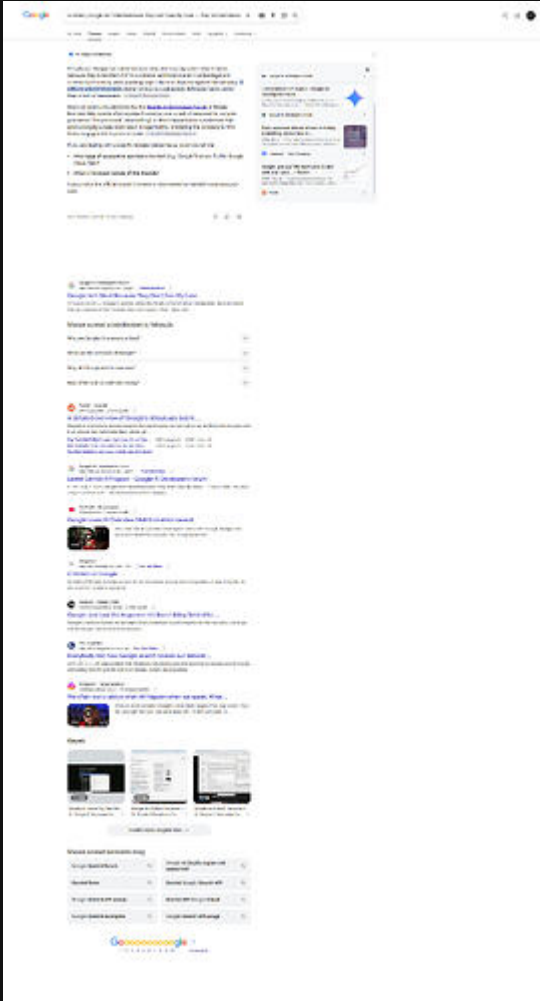
It is not a serious information tool — it is a **robot with short-term memory loss**.

Consumer protection laws penalize products (like AI Overview) that are marketed with properties (objective, summarizing, snapshot) that the product is **by design** incapable of delivering.









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2 July 2, 2026, 5:55pm

<https://archive.org/details/ai-powered-overview-is-a-mathematical-contradiction-its-not-a-summary-its-an-amn>

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3 July 2, 2026, 7:36pm

I asked Google's AI-mode a simple question: "What qualities are needed to make a good summary?" And the model immediately started acting like some conscious expert system, talking about analytical thinking, the ability to see the essence, objectivity, critical reasoning, deep text comprehension, precise writing skills, and logical structuring. All of this is hilarious, because these are human cognitive abilities, and a stateless, memory-less LLM has none of them. The chatbot behaved as if it actually understood what summarization is, while in reality it's just a random token generator pretending to be a search engine.

Then I pasted my post into the chat — the one that tears LLMs apart for being amnesiac, unstable, non-reproducible, and mathematically incapable of producing a real summary. And the moment it saw that, the chatbot instantly backed off. All the big talk vanished. No more "analytical thinking," no more "objectivity," no more "critical reasoning." Suddenly the mighty AI-mode shrank down to a tiny disclaimer: "AI responses may contain errors."

That line is Google's own UI admitting that the entire "AI Overview" is basically a slot machine. You get a different answer every time, and then you have to pick which one you like, just like gambling. A stateless, unconscious, memory-less LLM cannot "make mistakes," because it doesn't know anything in the first place — and that's exactly why it cannot summarize the web. Google's AI Overview is not a summary. It's a random token lottery dressed up as one.



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